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David Saliwanchik
David R. Saliwanchik, Patent Attorney

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INFORMATION DISCLOSURE
STATEMENT
Patent Application
Docket No. SPO-128
Serial No. 10/584,742

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : *Not yet assigned*
Applicants : Toshio Hirano, Susumu Yamashita
Serial No. : 10/584,742
Filed : June 26, 2006
Conf. No. : *Not yet assigned*
For : EMT-Inducing Agents

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

Sir:

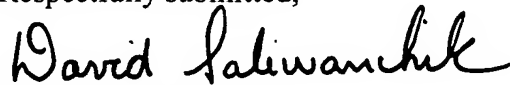
The patent application referred to above was filed in the U.S. Patent Office as a national application under 35 USC §371. A copy of the International Search Report is enclosed for the Examiner's convenience. Applicants have also listed on Form PTO/SB/08 several references which have not been cited in the International Search Report. Copies of these documents are enclosed with this IDS.

However, copies of references F1 through F6, and R1, R9, R23, R24, R26, R27, R30, R31, R32 and R33 have not been provided since they were cited in the International Search Report, and as such, should have been provided directly by the WIPO under the exchange program between the USPTO, the EPO and the JPO. Furthermore, F1 through F6 and R1, R23, R27 and R31 were also cited in the Written Opinion.

In accordance with 37 CFR §1.56, Applicants hereby request that the references cited in the International Search Report and listed on the attached form PTO/SB/08 be made of record and considered in the examination of the subject application.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



David R. Saliwanchik

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DRS/wrc

Attachment: Form PTO/SB/08 (5 pages)
Copy of International Search Report
Copies of cited references (24)



PTO/SB/08A (07-05)
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Substitute for form

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/584,742
Filing Date	June 26, 2006
First Named Inventor	Toshio Hirano
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	SPO-128

Sheet 1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	US-			
	U2	US-			
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			
	U10	US-			
	U11	US-			
	U12	US-			
	U13	US-			
	U14	US-			
	U15	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	F1	JP	2003-500113	A	01-07-2003	Spector, M	All	
	F2	JP	2003-517829	A	06-03-2003	Wiley, S. R.	All	
	F3	JP	2003-523207	A	08-05-2003	Goddard <i>et al.</i>	All	
	F4	WO	01/96372	A2	12-20-2001	Taylor <i>et al.</i>	All	
	F5	WO	2004/066933	A2	08-12-2004	McLachlan <i>et al.</i>	All	
	F6	WO	2004/067564	A2	08-12-2004	Law <i>et al.</i>	All	
	F7							
	F8							
	F9							

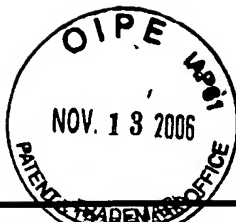
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Art Unit	Not yet assigned
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Sheet 2 of 5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	BATLLE <i>et al.</i> , "The transcription factor snail is a repressor of E-cadherin gene expression in epithelial tumor cells," <i>Nat. Cell Biol.</i> , February 2000, pp. 84-89, Vol. 2, No. 2.	
	R2	BLANCO <i>et al.</i> , "Correlation of Snail Expression with Histological grade and lymph node status in breast carcinomas," <i>Oncogene</i> , May 2002, pp. 3241-3246, Vol. 21, No. 20.	
	R3	BOWMAN <i>et al.</i> , "STATs in oncogenesis," <i>Oncogene</i> , May 2000, pp. 2474-2488, Vol. 19, No. 21.	
	R4	BROMBERG <i>et al.</i> , "The role of STATs in transcriptional control and their impact on cellular function," <i>Oncogene</i> , May 2000, pp. 2468-2473, Vol. 19, No. 21.	
	R5	CANO <i>et al.</i> , "The transcription factor Snail controls epithelial-mesenchymal transitions by repressing E-cadherin expression," <i>Nature Cell Biology</i> , February 2000, pp. 76-83, Vol. 2, No. 2.	
	R6	CARVER <i>et al.</i> , "The Mouse Snail Gene Encodes a Key Regulator of the Epithelial-Mesenchymal Transition," <i>Molecular and Cellular Biology</i> , December 2001, pp. 8184-8188, Vol. 21, No. 23.	
	R7	DARNELL, "STATs and Gene Regulation," <i>Science</i> , September 12, 1997, pp. 1630-1635, Vol. 277, No. 5332.	
	R8	FUJITA <i>et al.</i> , "MTA3, a Mi-2/NuRD Complex Subunit, Regulates an Invasive Growth Pathway in Breast Cancer," <i>Cell</i> , April 18, 2003, pp. 207-219, Vol. 113, No. 2.	
	R9	HIRANO <i>et al.</i> , "Danio rerio LIV1 mRNA for zinc transporter LIV1," <i>DDBJ Accession No. AB126260, DNA Data Bank of Japan</i> , 2004.	
	R10	HIRANO <i>et al.</i> , "Roles of STAT3 in mediating the cell growth, differentiation and survival signals relayed through the IL-6 family of cytokine receptors," <i>Oncogene</i> , May 2000, pp. 2548-2556, Vol. 19, No. 21.	

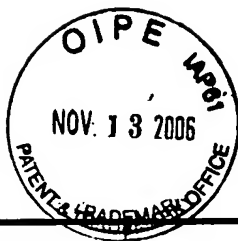
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First Named Inventor	Toshio Hirano
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	SPO-128

Sheet 3 of 5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R11	IKENOUCHI <i>et al.</i> "Regulation of tight junctions during the epithelium-mesenchyme transition: direct repression of the gene expression of claudins/occludin by Snail," <i>Journal of Cell Science</i> , May 2003, pp. 1959-1967, Vol. 116, Pt. 10.	
	R12	KOZLOWSKI <i>et al.</i> "Photoactivatable (Caged) Fluorescein as a Cell Tracer for Fate Mapping in the Zebrafish Embryo," <i>Methods in Molecular Biology</i> , 2000, pp. 349-355, Vol. 135.	
	R13	LEPTIN, "Twist and snail as positive and negative regulators during <i>Drosophila</i> mesoderm development," <i>Genes and Development</i> , September 1991, pp. 1568-1576, Vol. 5, No. 9.	
	R14	MANNING <i>et al.</i> "Effects of oestrogen on the expression of a 4.4 kb mRNA in the ZR-75-1 human breast cancer cell line," <i>Molecular and Cellular Endocrinology</i> , October 1988, pp. 205-212, Vol. 59, No. 3.	
	R15	MANNING <i>et al.</i> "Oestrogen-regulated Genes in Breast Cancer: Association of pLIV1 with lymph node involvement," <i>European Journal of Cancer</i> , 1994, pp. 675-678, Vol. 30A, No. 5.	
	R16	MOHANTY <i>et al.</i> "Evidence that the <i>Dictyostelium</i> Dd-STATa protein is a repressor that regulates commitment to stalk cell differentiation and is also required for efficient chemotaxis," <i>Development</i> , August 1999, pp. 3391-3405, Vol. 126, No. 15.	
	R17	NASEVICIUS <i>et al.</i> "Effective targeted gene 'knockdown' in zebrafish," <i>Nature Genetics</i> , October 2000, pp. 216-220, Vol. 26, No. 2.	
	R18	NIETO <i>et al.</i> "Control of Cell Behavior during Vertebrate Development by <i>Slug</i> , a Zinc Finger Gene," <i>Science</i> , May 6, 1994, pp. 835-839, Vol. 264.	
	R19	PEINADO <i>et al.</i> "Transforming Growth Factor β -1 Induces Snail Transcription Factor in Epithelial Cell Lines," <i>The Journal of Biological Chemistry</i> , June 2003, pp. 21113-21123, Vol. 278, No. 23.	
	R20	SANO <i>et al.</i> "Keratinocyte-specific ablation of Stat3 exhibits impaired skin remodeling, but does not affect skin morphogenesis," <i>The EMBO Journal</i> , September 1999, pp. 4657-4668, Vol. 18, No. 17.	

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	R21	SILVER <i>et al.</i> "Paracrine Signaling through the JAK/STAT Pathway Activates Invasive Behavior of Ovarian Epithelial Cells in <i>Drosophila</i> ," <i>Cell</i> , December 28, 2001, pp. 831-841, Vol. 107, No. 7.	
	R22	SOLNICA-KREZEL <i>et al.</i> "Transparent things: cell fates and cell movements during early embryogenesis of zebrafish," <i>BioEssays</i> , November 1995, pp. 931-939, Vol. 17, No. 11.	
	R23	TAYLOR, "LIV-1 Breast Cancer Protein Belongs to New Family of Histidine-Rich Membrane Proteins with Potential to Control Intracellular Zn ²⁺ Homeostasis," <i>IUBMB Life</i> , April 2000, pp. 249-253, Vol. 49, No. 4.	
	R24	TAYLOR <i>et al.</i> "The LZT proteins; the LIV-1 subfamily of zinc transporters," <i>Biochem. Biophys. Acta.</i> , April 2003, pp. 16-30, Vol. 1611, Nos. 1-2.	
	R25	TAYLOR <i>et al.</i> "Structure-function analysis of LIV-1, the breast cancer-associated protein that belongs to a new subfamily of zinc transporters," <i>Biochem. J.</i> , October 2003, pp. 51-59, Vol. 375, Pt. 1.	
	R26	TAYLOR <i>et al.</i> "Zinc transporter LIV-1: a link between cellular development and cancer progression," <i>Trends Endocrinol. Metab.</i> , December 2004, pp. 461-463, Vol. 15, No. 10.	
	R27	THIERY, "Epithelial-Mesenchymal Transitions in Tumour Progression," <i>Nat. Rev. Cancer</i> , June 2002, pp. 442-454, Vol. 2, No. 6.	
	R28	THISSE <i>et al.</i> "Expression of <i>snail2</i> , a Second Member of the Zebrafish Snail Family, in Cephalic Mesendoderm and Presumptive Neural Crest of Wild-Type and <i>spadetail</i> Mutant Embryos," <i>Developmental Biology</i> , November 1995, pp. 86-99, Vol. 172, No. 1.	
	R29	THISSE <i>et al.</i> "Structure of the zebrafish <i>snail1</i> gene and its expression in wild-type, <i>spadetail</i> and no tail mutant embryos," <i>Development</i> , December 1993, pp. 1203-1215, Vol. 119, No. 4.	
	R30	YAMASHITA <i>et al.</i> "Johi-Kan' yo Tenkan (EMT) ni okeru Zn Finger-gata Tensha Inshi to Zn Transporter no Kankai," <i>Saibou Kougaku (Cell Technology)</i> , 2004, pp. 936-937, Vol. 23, No. 8.	

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	R31	YAMASHITA <i>et al.</i> "Stat3 Controls Cell Movements during Zebrafish Gastrulation," <i>Dev. Cell.</i> , March 2002, pp. 363-375, Vol. 2, No. 3.	
	R32	YAMASHITA <i>et al.</i> "Stats in cell mobility and polarity during morphogenetic movements," <i>Signal transducers and Activators of Transcription (STATs): Activation and Biology</i> , 2003, pp. 595-607.	
	R33	YAMASHITA <i>et al.</i> "Zinc transporter LIV1 controls epithelial-mesenchymal transition in zebrafish gastrula organizer," <i>Nature</i> , May 2004, pp. 298-302, Vol. 429, No. 6989.	
	R34	"Molecular mechanisms of the formation of Spemann organizer and coordinate regulation of cell movement during gastrulation," Osaka University Medical School, Hirano Lab Home Page, (http://www.med.osaka-u.ac.jp/pub/molonc/www/Eneuron.html)	
	R35		
	R36		
	R37		
	R38		
	R39		
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